

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: Fri Aug 31 08:27:11 EDT 2007

=====

Application No: 10574903 Version No: 1.0

Input Set:

Output Set:

Started: 2007-08-21 07:36:04.532
Finished: 2007-08-21 07:36:05.744
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 212 ms
Total Warnings: 51
Total Errors: 0
No. of SeqIDs Defined: 51
Actual SeqID Count: 51

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-08-21 07:36:04.532
Finished: 2007-08-21 07:36:05.744
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 212 ms
Total Warnings: 51
Total Errors: 0
No. of SeqIDs Defined: 51
Actual SeqID Count: 51

Error code	Error Description
	This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (24)
W 402	Undefined organism found in <213> in SEQ ID (25)
W 402	Undefined organism found in <213> in SEQ ID (26)

SEQUENCE LISTING

<110> Brown, Tracey Jean
Brownlee, Gary Russell

<120> THE MODULATION OF HYALURONAN SYNTHESIS AND DEGRADATION IN THE
TREATMENT OF DISEASE

<130> 650064.407USPC

<140> 10574903
<141> 2007-08-21

<150> US 10/547,903
<151> 2004-10-11

<150> PCT/AU2004/001383
<151> 2004-10-11

<150> AU 2003906658
<151> 2003-12-01

<150> AU 2003905551
<151> 2003-10-10

<160> 51

<170> PatentIn version 3.4

<210> 1
<211> 27
<212> DNA
<213> Artificial Sequence

<220>

<223> Sense primer for human HAS2

<400> 1
gagctgaaca agatgcattg tgagagc

27

<210> 2
<211> 29
<212> DNA
<213> Artificial Sequence

<220>

<223> Antisense primer for human HAS2

<400> 2
gacatggtgc ttgatgtatg atttccat

29

<210> 3
<211> 18
<212> DNA
<213> Artificial Sequence

<220>

<223> Primer for PCINeo

<400> 3
gcacagatgc gtaaggag 18

<210> 4
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for GSP2

<400> 4
gctgtgtaca tgacacctcgcg cttggccgcc 29

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for GSP4

<400> 5
ggcgggaaagt aaactcgac 19

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS1

<400> 6
cctgcatcag cggtcctcta 20

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS1

<400> 7
gccggtcata cccaaaag 18

<210> 8
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS2

<400> 8
aacctttgc agcagtttct tgaggcc 27

<210> 9
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS2

<400> 9
cagtccgtggc ttcgagcag 19

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS2

<400> 10
ttgggagaaaa agtctttggc t 21

<210> 11
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS2

<400> 11
ccattgaacc agagacttga aacagccc 28

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS3

<400> 12
ttgcacttgt gtcgtcaact t 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS3

<400> 13
gtcgagggtca aacgttgtga g 21

<210> 14
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS3

<400> 14
tcaaataaaa aacaggcagg tacaggtgt gg 32

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for GAPDH

<400> 15
aaggtaaagg tcggagtc aa c 21

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for GAPDH

<400> 16
gagttaaaag cagccctgg g 21

<210> 17
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for GAPDH

<400> 17
tttgtcgta ttgggcgcct gg 22

<210> 18
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL1

<400> 18
gcacaggaa gtcacagatg tatgtgc 27

<210> 19

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYALL

<400> 19
ccactggtca cgttcaggat gaag 24

<210> 20
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL2

<400> 20
gatgtgtatc gccgggttatac acgcc 25
<210> 21
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYAL2

<400> 21
cgttagactgg gagtgcatgg ttggc 25

<210> 22
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL3

<400> 22
gcactgatgg aggatacgct gcg 23

<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYAL3

<400> 23
gctgggtgact gcaggccatc gctgc 25
<210> 24
<211> 21
<212> PRT
<213> human

<400> 24

Ala Ala Arg Gly Pro Leu Asp Ala Ala Thr Cys Arg Ala Leu Leu Tyr
1 5 10 15
Pro Arg Ala Arg Val
20

<210> 25

<211> 11
<212> PRT
<213> human

<400> 25

Gly Gly Leu Val Arg Ser Val Ala His Glu Ala
1 5 10

<210> 26

<211> 17
<212> PRT
<213> human

<400> 26

Gly Ala Tyr Arg Glu Val Glu Ala Glu Asp Pro Gly Arg Leu Ala Val
1 5 10 15
Glu

<210> 27

<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Sense primer for HAS1

<400> 27

cctgcatca g cgg tcc tca 20

<210> 28

<211> 19
<212> DNA
<213> Artificial Sequence

<220>

<223> Sense primer for HAS2

<400> 28

c a g t c c t g g c t t c g a g c a g 19

<210> 29

<211> 21
<212> DNA
<213> Artificial Sequence

<220>

<223> Sense primer for HAS3

<400> 29
ttgcactgtg gtcgtcaact t 21
<210> 30
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer GAPDH

<400> 30
aaggtgaagg tcggagtcaa c 21
<210> 31
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL1

<400> 31
gcacagggaa gtcacagatg tatgtgc 27
<210> 32
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL2

<400> 32
gcacagggaa gtcacagatg tatgtgc 27
<210> 33
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HYAL3

<400> 33
gcacagggaa gtcacagatg tatgtgc 27
<210> 34
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS1

<400> 34

gccggtcatc cccaaaag

18

<210> 35
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS2

<400> 35
ttgggagaaa agtctttggc t

21

<210> 36
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS3

<400> 36
gtcgaggtaa aacgttgtga g

21

<210> 37
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for GAPDH

<400> 37
gagttaaaag cagccctgg g

21

<210> 38
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYALL

<400> 38
ccactggtaa cgttcaggat gaag

24

<210> 39
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYAL2

<400> 39
cgttagactgg gagtgcatgg ttggc

25

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HYAL3

<400> 40
gctgggtgact gcaggccatc gctgc 25

<210> 41
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Hybridisation probe for HAS1

<400> 41
aaccttgc agcagtttct tgaggcc 27

<210> 42
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Hybridisation probe for HAS2

<400> 42
ccattgaacc agagacttga aacagccc 28

<210> 43
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Hybridisation probe for HAS3

<400> 43
tcaaataaaa aacaggcagg tacaggttagt gg 32

<210> 44
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Hybridisation probe for GAPDH

<400> 44
tttgggtcgta ttggggcgct gg 22

<210> 45
<211> 27

<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer for HAS2

<400> 45
gagctgaaca agatgcattg tgagagc 27

<210> 46
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense primer for HAS2

<400> 46
gacatggatgc ttgatgtatg atcttccat 29

<210> 47
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for pCL-neo

<400> 47
gcacagatgc gtaaggag 18

<210> 48
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> GSP2 sense primer

<400> 48
gctgtgtaca tgacctcgcg ctgccgcc 29

<210> 49
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> GSP4 sense primer

<400> 49
ggcgaaaaagt aaactcgac 19

<210> 50
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Alu sense primer

<400> 50
tgaaaacccc gtctctacta aaaatacaaa 30

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Alu antisense primer

<400> 51
gcgatctcggttcactgcaa 20